



# CIS - Relational Database Administration Certificate

The Relational Database Administration Certificate is designed for a person who is responsible for interacting with SQL Programmers, Database Designers, Systems Administrators, and Network Engineers, as well as the day-to-day operation of a Relational Database Management System. This course of study is appropriate for an entry-level Database Administration position. **This suggested program course schedule also meets the Certificate for CIS-Computer Programmer-SQL.**

Total Units: 19

## First Year

### Semester 1

11 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>CISP 300</b> <sup>Z</sup> Algorithm Design/Problem Solving	3	Intermediate Algebra	F, S, Su
<b>CISP 351</b> Introduction to Relational Database Design and SQL	3		F(P), S(P)
<b>CISC 310</b> <sup>Z</sup> Introduction to Computer Information Science	3	Advisory: familiar with basic functions of word process, spreadsheet, web browser software applications	F(O,P), S(O,P), Su(O)
<b>CISC 323</b> Linux Operating System	1		F(O), S(O), Su(O)
<b>CISA 320</b> Introduction to Database Management	1	Advisory: CISC 302 or 310	F(O), S(O), Su(O)

<sup>Z</sup> At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

### Semester 2

8 Units

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>CISA 321</b> Intermediate Database Management	1	CISA 320	F(O), S(O)
<b>CISC 324</b> Intermediate Linux Operating System	1	CISC 323	F(O), S(O), Su(O)
<b>CISP 352</b> Intermediate SQL	3	Advisory: CISP 351	F(O), S(O)

## Career

### Options/Outlook:

Database Administrators administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases. **Career opportunities require more than two years of college study.**

### A sample of reported job titles:

Data Architect, Database Administration Manager, Database Administrator (DBA), Database Analyst, Database Coordinator, Database Developer, Database Programmer, Information Systems Manager, Management Information Systems Director (MIS Director), System Administrator

### Projected job openings in California (2020-2030):

1,870

### Projected growth in California (2020-2030):

18% growth

COURSE	UNITS	PRE-REQS^	SEMESTERS OFFERED*
<b>CISP 354</b> Introduction to Relational Database Administration	3	Advisory: CISP 352	S(O)

^You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

\*(O) = Online available, (P) = Partially online

## Median Salary in California with advanced degree (2021):

\$101,970/yr

## Source:

<https://www.onetonline.org/link/summary/15-1141.00>

## About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

## This map also meets the requirement for

The Certificate of Achievement in CIS-Database Analyst-SQL.

## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.

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